

Amendments to the Claims

This listing of claims will replace all prior listings of claims in the application.

Listing of Claims

1. (Currently Amended) ~~A~~In a removable optical device ~~(08)~~ for releasable attachment to a microscope ~~(01)~~ suitable for contact-free observation of an eye ~~(05)~~ with at least one lens ~~(09)~~, which can be arranged between an objective ~~(04)~~ of the microscope ~~(01)~~ and the eye ~~(05)~~ in the optical axis ~~(06)~~ of the microscope ~~(01)~~ and can be adjusted with a drive device, with which the lens ~~(09)~~ can be adjusted along the optical axis ~~(06)~~ of the microscope ~~(01)~~, characterized in that the improvement wherein an electric drive motor ~~(24)~~ is integrated in the removable device ~~(08)~~, which, together with the device ~~(08)~~, can be detached from the microscope and sterilized by a suitable method.

2. (Currently Amended) The device according to claim 1, characterized in that wherein the drive motor ~~(24)~~ is arranged in a housing ~~(18)~~, which encloses the drive motor ~~(24)~~ against the surrounding environment in a manner sealed from gases and moisture.

3. (Currently Amended) The device according to claim 2, characterized in that wherein the drive movement of the drive motor ~~(24)~~ is transferred to a drive part ~~(25a)~~ of a contact-free acting coupling ~~(25)~~, wherein the drive part ~~(25a)~~ of the coupling ~~(25)~~ is arranged together with the drive motor ~~(24)~~ encapsulated in gas- and moisture-sealed manner in the housing ~~(18)~~, and wherein the drive movement of the drive part ~~(25a)~~ can be transferred in a contact-free manner to an output part

(25b) of the coupling (25) arranged outside of the encapsulated housing (18).

4. (Currently Amended) The device according to claim 3, characterized in that wherein the coupling is embodied in the form of a magnetic coupling (25).

5. (Currently Amended) The device according to claim 2, characterized in that wherein the housing (18) has a through opening (28) for passage of an electrical cable (21), which is gas and moisture sealed by means of a sealing means (29, 31) against the surrounding environment.

6. (Currently Amended) The device according to claim 5, characterized in that wherein a sealing ring (29) is provided as the sealing means, which can be attached with a suitable attachment means (30) in a sealing gap between the housing (18) and the electrical cable (25).

7. (Currently Amended) The device according to claim 5, characterized in that wherein on the end of the electrical cable (21), a plug (22) that is suited for sterilization is provided.

8. (Currently Amended) The device according to claim 2, characterized in that wherein at least one hollow chamber in the interior of the housing (18) is lined with a hardened sealing compound (31).

9. (Currently Amended) The device according to claim 8, characterized in that wherein the housing (18) has at least one fill opening (37), through which the sealing compound (31) can be filled in the housing after the mounting of the drive motor (24) in the housing (18).

10. (Currently Amended) The device according to claim 2, characterized in that wherein the housing is made from at

least two housing parts {18a, 18b} connected to one another in |  
a gas- and moisture-sealed manner.

11. (Currently Amended) The device according to claim 1, |  
~~characterized in that~~ wherein an accumulator for network-free |  
energy supply of the drive motor with drive energy is provided |  
on the device.

12. (Currently Amended) The device according to claim 1, |  
~~characterized in that~~ wherein a device for wireless data |  
transmission, in particular, an infrared interface, is |  
provided on the device.

13. (Currently Amended) The device according to claim 1, |  
~~characterized in that~~ wherein the lens {09} together with a |  
holding device {10} provided for attachment of the lens {09} |  
on the device {08} is embodied in the form of a one-way |  
article.

14. (Currently Amended) The device according to claim |  
13, ~~characterized in that~~ wherein the lens {09} and/or the |  
holding device {10} is made from plastic.

15. (Currently Amended) The device according to claim 1, |  
~~characterized in that~~ wherein the lens {09} is embodied in the |  
form of a higher-diffracting, aspherical magnifiers.